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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,600	09/18/2003	Robert J. Nealon	LUC-421/Nealon 2	8545
	7590 04/20/2011 aw Group , LLC	EXAMINER		
ONE N. LASAI		ROBERTS, BRIAN S		
44TH FLOOR CHICAGO, IL	60602		ART UNIT	PAPER NUMBER
			2466	
			MAIL DATE	DELIVERY MODE
			04/20/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

This action is FINAL. 2b This action is non-final.	Office Action Summary		Ap	Application No. Applicant(s)					
BRIAN ROBERTS 2466			10	0/666,600	NEALON, ROBER	NEALON, ROBERT J.			
The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Leatenages of time may be available useful to provide useful to			Ex	aminer	Art Unit				
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1) Responsive to communication(s) filed on 16 March 2010. 2a This action is FINAL. 2b This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5 Claim(s) is/are allowed. 6 Claim(s) is/are allowed. 6 Claim(s) is/are objected to. 7 Claim(s) is/are objected to. 8 Claim(s) is/are objected to. 8 Claim(s) is/are objected to. 8 Claim(s) is/are objected to by the Examiner. 7 The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application Braying and the application of the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11 The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.	WHIC - Exter after - If NO - Failui Any r	CHEVER IS LONGER, FROM THE M isions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum state to reply within the set or extended period for reply eply received by the Office later than three months a	AILING DATE of 37 CFR 1.136(a). unication. ututory period will ap will, by statute, caus	OF THIS COMMUNICATION In no event, however, may a reply be ply and will expire SIX (6) MONTHS free the application to become ABANDO	ON. timely filed om the mailing date of this on NED (35 U.S.C. § 133).	•			
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DETAILED ACTION

Claims 1-14 remain pending.

Claim Objections

Claims 1, 4, 6-7, 10, 12-13 are objected to because of the following informalities:

- Claim 1 line 18 "the PVCs" should read --the external PVCs--
- Claim 4 line 15 "the PVCs" should read --the external AAL2 PVCs--
- Claim 4 line 19 "the external PVCs" should read --the external AAL2 PVCs--
- Claim 4 line 21 "CPS (common part sublayer)" should read --common part sublayer (CPS)--
- Claim 4 lines 22-23 "SSCS (Service Specific Convergence Sublayer)" should read --Service Specific Convergence Sublayer (SSCS)--
- Claim 6 line 2 "CPS (common part sublayer) packets" should read --CPS packets--
- Claim 6 line 4 "CPS (common part sublayer) layer" should read --CPS layer--
- Claim 7 line 19 "the transcoders" should read --the DSPs--
- Claim 7 line 20 "CPS (common part sublayer)" should read --common part sublayer (CPS)--
- Claim 7 line 21 "SSCS (Service Specific Convergence Sublayer)" should read
 --Service Specific Convergence Sublayer (SSCS)--
- Claim 10 line 15 "CPS (common part sublayer)" should read --common part sublayer (CPS)--

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 Claim 10 line 16 "SSCS (Service Specific Convergence Sublayer)" should read --Service Specific Convergence Sublayer (SSCS)--

- Claim 12 line 21 "external PVCs" should read --external AAL2 PVCs--
- Claim 12 line 22 "CPS (common part sublayer) layer" should read --CPS
 layer--
- Claim 12 line 23 "SSCS (Service Specific Convergence Sublayer)" should read --Service Specific Convergence Sublayer (SSCS)--
- Claim 13 line 19 "CPS (common part sublayer)" should read --common part sublayer (CPS)--
- Claim 13 line 20 "SSCS (Service Specific Convergence Sublayer)" should read --Service Specific Convergence Sublayer (SSCS)-

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Paajanen et al. (US 7349404) in view of Jarl (US 2003/0026262) in view of Yoshihiro et al. (US 5239539) in view of Toyama et al. (US 6597696)

- In reference to claim 1-2

In Figures 1, Paajanen et al. teaches a method for using ATM AAL2 switching within a wireless access gateway that includes providing AAL2 CID switching (col. 1 lines 34-36) in a wireless access gateway, the wireless access gateway having a plurality of transcoders 3, the plurality of transcoders 3 having a subset of transcoders that are available transcoders (col. 5 lines 27-39); allocating individual CIDs (col. 1 lines 34-36) to transcoder channels (*individual call connections between AAL2s and DSPs*) on an as needed basis without a fixed relationship between external PVCs and transcoder channels (*there is inherently not a fixed relationship between external PVCs and the transcoder channels because the transcoder channels are setup dynamically between the AAL2s and DSPs*; (column 5 lines 27-62); switching a call to any one respective transcoder 3 of available transcoders (col. 4 lines 37-43); a Resource Manager and AAL2 connection control is operatively connected to the external PVCs and the transcoders 3 for allocating the individual CIDs to the transcoder channels on an as needed basis. (column 5 lines 27-62)

Paajanen et al. does not teach the Resource Manager and AAL2 connection control being located in a single packet switch control wherein the single packet switch control effects switching of individual packets from the external PVCs and to internal PVCs.

Jarl teaches a single packet switch control **210** that effects switching of individual packets from an external VPI/VPC connection and to an internal VPI/VPC connection that is mapped to one of a group of compression/decompression units **220**. (paragraph 0021)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the system and method of Paajanen et al. to include the Resource Manager and AAL2 connection control being located in a single packet switch control wherein the single packet switch control effects switching of individual packets from the external PVCs and to internal PVCs as suggested by Jarl because it provides a central controller to assign the CIDs to the individual DSP channels and control switching to the DSPs.

The combination of Paajanen et al. and Jarl does not teach the single packet switch control establishing an even distribution of calls among the transcoders for an uneven call load on the external PVCs.

In Figure 3B, Yoshihiro teaches a main processor **3** that controls the assignment of call processing to call processors **2-1** through **2-N** based on the state of the call processors so that the loads are distributed uniformly among the call processors. (col. 4 lines 34-68)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the single packet switch control of the combination of Paajanen et al. and Jarl to include establishing an even distribution of calls among the transcoders for an uneven call load on the external PVCs as suggested by Yoshihiro because it prevents a particular DSP from becoming overloaded or under-utilized.

The combination of Paajanen et al., Jarl, and Yoshihiro does not teach transcoding the call from a first format to a second format in the DSPs.

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Toyama et al. teaches upper layer processing section **122-1** to **121-M** that may process a CPS-packet payload by converting of the encoding system for a voice signal, which is loaded on the CPS-packet, encryption and decryption, compression and extension, protocol conversion, and media conversion. (col. 11 line 62 - col. 12 line 9)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the combination of Paajanen et al., Jarl, and Yoshihiro of to include transcoding the call from a first format to a second format in the DSPs as suggested by Toyama et al. because it allows a voice call payload to be processed at an upper layer, and converted to a second format that is required by an endpoint.

- In reference to claim 3

The combination of Paajanen et al., Jarl, Yoshihiro, and Toyama et al. teaches a system and method that covers substantially all limitations of the parent claim. In Figures 1, Paajanen et al. further teaches the switching of the call to any one respective transcoder **3** of available transcoders is on an as needed basis. (column 5 lines 27-54)

- In reference to claim 4, 6

In Figure 1, Paajanen et al. teaches a method for using ATM AAL2 switching within a wireless access gateway that includes: terminating a plurality of external AAL2 PVCs at an intermediate node 1; setting up a set of internal AAL2 PVCs between the intermediate node 1 and a set of transcoders 3 that form a plurality of DSP channels; allocating a respective DSP channel (*individual call connections between AAL2s and*

DSPs), of the plurality of DSP channels for a call as a function of at least one predetermined parameter; switching individual AAL TYPE 2 CPS-packets (col. 1 lines 34-36) of a new call at a AAL2 CPS layer from an external AAL2 PVC of the plurality of external AAL2 PVCs to an internal AAL2 PVC of the set of internal AAL2 PVCs on an as needed basis wherein a Resource Manager and AAL2 connection control is operatively connected to the external PVCs and the transcoders **3** for allocating the individual CIDs to the DSP channels on an as needed basis. (column 5 lines 27-62)

Paajanen et al. does not teach the Resource Manager and AAL2 connection control being located in a single packet switch control that is operatively connection to the intermediate node, the PVCs and the transcoder, wherein the single packet switch control effects switching of individual packets from the external PVCs and to internal PVCs by instructing the intermediate node.

Jarl teaches a single packet switch control **210** that effects switching of individual packets from an external VPI/VPC connection and to an internal VPI/VPC connection that is mapped to one of a group of compression/decompression units **220**. (paragraph 0021)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the system and method of Paajanen et al. to include the Resource Manager and AAL2 connection control being located in a single packet switch control that is operatively connected to the intermediate node, the AAL2 PVCs and the transcoder wherein the single packet switch control effects switching of individual packets from the external PVCs and to internal PVCs by instructing the intermediate

node as suggested by Jarl because it provides a central controller to assign the CIDs to the individual DSP channels and control switching to the DSPs.

The combination of Paajanen et al. and Jarl does not teach the single packet switch control establishing an even distribution of calls among the transcoders for an uneven call load on the external PVCs.

In Figure 3B, Yoshihiro teaches a main processor **3** that controls the assignment of call processing to call processors **2-1** through **2-N** based on the state of the call processors so that the loads are distributed uniformly among the call processors. (col. 4 lines 34-68)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the single packet switch control of the combination of Paajanen et al. and Jarl to include establishing an even distribution of calls among the DSPs for an uneven call load on the external PVCs as suggested by Yoshihiro because it prevents a particular DSP from becoming overloaded or under-utilized.

The combination of Paajanen et al., Jarl, and Yoshihiro does not teach the AAL2 SSCS layer is terminated on a per call basis at a respective DSP.

Toyama et al. teaches upper layer processing section **122-1** to **121-M** that may process a CPS-packet payload by converting of the encoding system for a voice signal, which is loaded on the CPS-packet, encryption and decryption, compression and extension, protocol conversion, and media conversion. (col. 11 line 62 - col. 12 line 9) As such, the AAL2 SSCS layer may be terminated.

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It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the combination of Paajanen et al., Jarl, and Yoshihiro of to include the AAL2 SSCS layer being terminated on a per call basis at a respective DSP as suggested by Toyama et al. because it allows a voice call payload to be processed at an upper layer, and converted to a second format that is required by an endpoint.

In reference to claim 5

The combination of Paajanen et al., Jarl, Yoshihiro, and Toyama et al. teaches a system and method that covers substantially all limitations of the parent claim. In Figures 1, Paajanen et al. further teaches wherein at least one predetermined parameter comprises at least one of a state of the transcoders 3, a current load on the transcoders, and a state of the internal AAL2 PVCs. (column 5 lines 27-54)

- In reference to claim 7-8

In Figures 1, Paajanen et al. teaches a method for using ATM AAL2 switching within a wireless access gateway that includes providing AAL2 CID switching in a wireless access gateway, the wireless access gateway having a plurality of DSPs 3; allocating individual CIDs (col. 1 lines 34-36) to transcoder channels (*individual call connections between AAL2s and DSPs*) on an as needed basis without a fixed relationship between external PVCs and transcoder channels (*there is inherently not a fixed relationship between external PVCs and the transcoder channels because the transcoder channels are setup dynamically between the AAL2s and DSPs; (column 5*

lines 27-62); switching individual AAL TYPE 2 CPS-packets (col. 1 lines 34-36) of a call at a AAL2 CPS layer to any one respective DSP 3 of available DSPs, the available DSPs being a subset of the plurality of DSPs 3; (column 4 lines 5-36; column 5 lines 27-54); a Resource Manager and AAL2 connection control is operatively connected to the external PVCs and the DSPs 3 for allocating the individual CIDs to the transcoder channels on an as needed basis. (column 5 lines 27-62)

Paajanen et al. does not teach the Resource Manager and AAL2 connection control being located in a single packet switch control wherein the single packet switch control effects switching of individual packets from the external PVCs and to internal PVCs.

Jarl teaches a single packet switch control **210** that effects switching of individual packets from an external VPI/VPC connection and to an internal VPI/VPC connection that is mapped to one of a group of compression/decompression units **220**. (paragraph 0021)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the system and method of Paajanen et al. to include the Resource Manager and AAL2 connection control being located in a single packet switch control wherein the single packet switch control effects switching of individual packets from the external PVCs and to internal PVCs as suggested by Jarl because it provides a central controller to assign the CIDs to the individual DSP channels and control switching to the DSPs.

The combination of Paajanen et al. and Jarl does not teach the single packet switch control establishing an even distribution of calls among the transcoders for an uneven call load on the external PVCs.

In Figure 3B, Yoshihiro teaches a main processor 3 that controls the assignment of call processing to call processors **2-1** through **2-N** based on the state of the call processors so that the loads are distributed uniformly among the call processors. (col. 4 lines 34-68)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the single packet switch control of the combination of Paajanen et al. and Jarl to include establishing an even distribution of calls among the transcoders for an uneven call load on the external PVCs as suggested by Yoshihiro because it prevents a particular DSP from becoming overloaded or under-utilized.

The combination of Paajanen et al., Jarl, and Yoshihiro does not teach the DSPs acting as transcoders for digital representation of speech, transcoding the packets of the call in the respective DSP from a first encoding to a second encoding, and the AAL2 SSCS layer being terminated on a per call basis at a respective DSP.

Toyama et al. teaches upper layer processing section **122-1** to **121-M** that may process a CPS-packet payload by converting of the encoding system for a voice signal, which is loaded on the CPS-packet, encryption and decryption, compression and extension, protocol conversion, and media conversion. (col. 11 line 62 - col. 12 line 9) As such, the AAL2 SSCS layer may be terminated.

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It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the combination of Paajanen et al., Jarl, and Yoshihiro of to include the DSPs acting as transcoders for digital representation of speech, transcoding the packets of the call in the respective DSP from a first encoding to a second encoding, and the AAL2 SSCS layer being terminated on a per call basis at a respective DSP as suggested by Toyama et al. because it allows a voice call payload to be processed at an upper layer, and converted to a second format that is required by an endpoint.

- In reference to claim 9

The combination of Paajanen et al., Jarl, Yoshihiro, and Toyama et al. teaches a system and method that covers substantially all limitations of the parent claim. In Figures 1, Paajanen et al. further teaches wherein the switching of individual calls to any one respective DSP (3) of available DSPs (3) is on an as needed basis. (column 5 lines 27-54)

In reference to claim 10

In Figures 1, Paajanen et al. teaches a method for using ATM AAL2 switching within a wireless access gateway that includes allocating individual CIDs (col. 1 lines 34-36) to transcoder channels (*individual call connections between AAL2s and DSPs*) on an as needed basis without a fixed relationship between external PVCs and transcoder channels (*there is inherently not a fixed relationship between external PVCs and the transcoder channels because the transcoder channels are setup dynamically*

between the AAL2s and DSPs; (column 5 lines 27-62) switching individual AAL TYPE 2 CPS-packets (col. 1 lines 34-36) of a call at a AAL2 CPS layer to any one respective transcoder 3 of available transcoders, the available transcoders being a subset of the plurality of transcoders 3; (column 4 lines 5-36; column 5 lines 27-54 wherein a Resource Manager and AAL2 connection control is operatively connected to the external PVCs and the transcoders 3 for allocating the individual CIDs to the transcoder channels on an as needed basis. (column 5 lines 27-62)

Paajanen et al. does not teach the Resource Manager and AAL2 connection control being located in a single packet switch control wherein the single packet switch control effects the switching of the individual AAL TYPE 2 CPS-packets from the external PVCs and to internal PVCs.

Jarl teaches a single packet switch control **210** that effects switching of individual packets from an external VPI/VPC connection and to an internal VPI/VPC connection that is mapped to one of a group of compression/decompression units **220**. (paragraph 0021)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the system and method of Paajanen et al. to include the Resource Manager and AAL2 connection control being located in a single packet switch control wherein the single packet switch control effects the switching of the individual AAL TYPE 2 CPS-packets from the external PVCs and to internal PVCs as suggested by Jarl because it provides a central controller to assign the CIDs to the individual DSP channels and control switching to the DSPs.

The combination of Paajanen et al. and Jarl does not teach the single packet switch control establishing an even distribution of calls among the transcoders for an uneven call load on the external PVCs.

In Figure 3B, Yoshihiro teaches a main processor **3** that controls the assignment of call processing to call processors **2-1** through **2-N** based on the state of the call processors so that the loads are distributed uniformly among the call processors. (col. 4 lines 34-68)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the single packet switch control of the combination of Paajanen et al. and Jarl to include establishing an even distribution of calls among the transcoders for an uneven call load on the external PVCs as suggested by Yoshihiro because it prevents a particular DSP from becoming overloaded or under-utilized.

The combination of Paajanen et al., Jarl, and Yoshihiro does not teach transcoding the call from a first format to a second format in the DSPs, and the AAL2 SSCS layer being terminated on a per call basis at a respective DSP.

Toyama et al. teaches upper layer processing section **122-1** to **121-M** that may process a CPS-packet payload by converting of the encoding system for a voice signal, which is loaded on the CPS-packet, encryption and decryption, compression and extension, protocol conversion, and media conversion. (col. 11 line 62 - col. 12 line 9) As such, the AAL2 SSCS layer may be terminated.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the combination of Paajanen et al., Jarl, and Yoshihiro of to

include transcoding the call from a first format to a second format in the DSPs and the AAL2 SSCS layer being terminated on a per call basis at a respective DSP as suggested by Toyama et al. because it allows a voice call payload to be processed at an upper layer, and converted to a second format that is required by an endpoint.

- In reference to claim 11

The combination of Paajanen et al., Jarl, Yoshihiro, and Toyama et al. teaches a system and method that covers substantially all limitations of the parent claim. In Figures 1, Paajanen et al. further teaches wherein the allocating of individual CIDs to transcoder channels is a function of at least one predetermined parameter, and wherein the at least one predetermined parameter comprises at least one of a state of the each of the transcoders 3, and a current load on all of the transcoders 3. (column 5 lines 27-54)

- In reference to claim 12

In Figures 1, Paajanen et al. teaches a system for using ATM AAL2 switching within a wireless access gateway that includes a plurality of external AAL2 PVCs; a plurality of internal AAL2 PVCs; a plurality of transcoders 3; at least one intermediate node 1 operatively connected to the external AAL2 PVCs and to the internal AAL2 PVCs; a Resource Manager and AAL2 connection control operatively connected to the at least one intermediate node, the plurality of internal AAL2 PVCs and the transcoders (column 5 lines 27-62); the at least one intermediate node 1 switching individual AAL2

CPS-Packets (col. 1 lines 34-36) on a per call basis at a AAL2 CPS layer from the external AAL2 PVCs to the internal AAL2 PVCs (col. 4 lines 37-43) wherein the Resource Manager and AAL2 connection control is operatively connected to the intermediate node 1, external PVCs and the transcoders 3 for allocating individual CIDs to transcoder channels (*individual call connections between AAL2s and DSPs*) on an as needed basis. (column 5 lines 27-62)

Paajanen et al. does not teach the Resource Manager and AAL2 connection control being located in a single packet switch control that is operatively connection to the intermediate node, the PVCs and the transcoder, wherein the single packet switch control effects switching of individual packets from the external PVCs and to internal PVCs by instructing the intermediate node.

Jarl teaches a single packet switch control **210** that effects switching of individual packets from an external VPI/VPC connection and to an internal VPI/VPC connection that is mapped to one of a group of compression/decompression units **220**. (paragraph 0021)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the system and method of Paajanen et al. to include the Resource Manager and AAL2 connection control being located in a single packet switch control that is operatively connection to the intermediate node, the PVCs and the transcoder wherein the single packet switch control effects switching of individual packets from the external PVCs and to internal PVCs by instructing the intermediate

node as suggested by Jarl because it provides a central controller to assign the CIDs to the individual DSP channels and control switching to the DSPs.

The combination of Paajanen et al. and Jarl does not teach the single packet switch control establishing an even distribution of calls among the transcoders for an uneven call load on the external PVCs.

In Figure 3B, Yoshihiro teaches a main processor 3 that controls the assignment of call processing to call processors **2-1** through **2-N** based on the state of the call processors so that the loads are distributed uniformly among the call processors. (col. 4 lines 34-68)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the single packet switch control of the combination of Paajanen et al. and Jarl to include establishing an even distribution of calls among the DSPs for an uneven call load on the external PVCs as suggested by Yoshihiro because it prevents a particular DSP from becoming overloaded or under-utilized.

The combination of Paajanen et al., Jarl, and Yoshihiro does not teach the AAL2 SSCS layer is terminated on a per call basis at a respective DSP.

Toyama et al. teaches upper layer processing section **122-1** to **121-M** that may process a CPS-packet payload by converting of the encoding system for a voice signal, which is loaded on the CPS-packet, encryption and decryption, compression and extension, protocol conversion, and media conversion. (col. 11 line 62 - col. 12 line 9) As such, the AAL2 SSCS layer may be terminated.

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It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the combination of Paajanen et al., Jarl, and Yoshihiro of to include the AAL2 SSCS layer being terminated on a per call basis at a respective DSP as suggested by Toyama et al. because it allows a voice call payload to be processed at an upper layer, and converted to a second format that is required by an endpoint.

- In reference to claim 13-14

In Figures 1, Paajanen et al. teaches a method for using ATM AAL2 switching within a wireless access gateway that includes providing AAL2 CID switching in a wireless access gateway, the wireless access gateway having a plurality of DSPs 3; allocating individual CIDs (col. 1 lines 34-36) to transcoder channels (*individual call connections between AAL2s and DSPs*) on an as needed basis without a fixed relationship between external PVCs and transcoder channels (*there is inherently not a fixed relationship between external PVCs and the transcoder channels because the transcoder channels are setup dynamically between the AAL2s and DSPs; (column 5 lines 27-62); switching individual digital representations of speech in AAL TYPE 2 CPSpackets of a call to any one respective DSP 3 of available DSPs, the available DSPs being a subset of the plurality of DSPs 3; (column 4 lines 5-36; column 5 lines 27-54) a Resource Manager and AAL2 connection control is operatively connected to the external PVCs and the transcoders 3 for allocating the individual CIDs to the transcoder channels on an as needed basis. (column 5 lines 27-62)*

Paajanen et al. does not teach the Resource Manager and AAL2 connection control being located in a single packet switch control wherein the single packet switch control effects switching of individual packets from the external PVCs and to internal PVCs.

Jarl teaches a single packet switch control **210** that effects switching of individual packets from an external VPI/VPC connection and to an internal VPI/VPC connection that is mapped to one of a group of compression/decompression units **220**. (paragraph 0021)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the system and method of Paajanen et al. to include the Resource Manager and AAL2 connection control being located in a single packet switch control wherein the single packet switch control effects switching of individual packets from the external PVCs and to internal PVCs as suggested by Jarl because it provides a central controller to assign the CIDs to the individual DSP channels and control switching to the DSPs.

The combination of Paajanen et al. and Jarl does not teach the single packet switch control establishing an even distribution of calls among the transcoders for an uneven call load on the external PVCs.

In Figure 3B, Yoshihiro teaches a main processor 3 that controls the assignment of call processing to call processors **2-1** through **2-N** based on the state of the call processors so that the loads are distributed uniformly among the call processors. (col. 4 lines 34-68)

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It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the single packet switch control of the combination of Paajanen et al. and Jarl to include establishing an even distribution of calls among the transcoders for an uneven call load on the external PVCs as suggested by Yoshihiro because it prevents a particular DSP from becoming overloaded or under-utilized.

The combination of Paajanen et al., Jarl, and Yoshihiro does not teach the DSPs acting as transcoders for digital representations of speech, transcoding the digital representation of speech of the call in the respective DSP from a first encoding to a second encoding, and the AAL2 SSCS layer being terminated on a per call basis at a respective DSP.

Toyama et al. teaches upper layer processing section **122-1** to **121-M** that may process a CPS-packet payload by converting of the encoding system for a voice signal, which is loaded on the CPS-packet, encryption and decryption, compression and extension, protocol conversion, and media conversion. (col. 11 line 62 - col. 12 line 9) As such, the AAL2 SSCS layer may be terminated.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the combination of Paajanen et al., Jarl, and Yoshihiro of to include the DSPs acting as transcoders for digital representation of speech, transcoding the digital representations of speech of the call in the respective DSP from a first encoding to a second encoding, and the AAL2 SSCS layer being terminated on a per call basis at a respective DSP as suggested by Toyama et al. because it allows a voice

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call payload to be processed at an upper layer, and converted to a second format that is required by an endpoint.

Response to Arguments

Applicant's arguments filed 03/16/2010 have been fully considered but they are not persuasive.

- On page 19 of the Remarks, the applicant contends that it is only with hindsight of applicant's invention that one would seek out the four references (i.e. Paajanen et al. (US 7349404) in view of Jarl (US 2003/0026262) in view of Yoshihiro et al. (US 5239539) in view of Toyama et al. (US 6597696)) and arrive at some combination of the four references that would seem to anticipate the claimed invention.
- In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).
- On page 19 of the Remarks, the applicant contends that each of the independent claims include the feature "wherein packets are switched on a per

call basis at a AAL2 CPS layer wherein the AAL2 SSCS layer is terminated on a per call basis at a transcoder node" that distinguishes the claims over the prior art.

• The Examiner respectfully disagrees. Independent claim 1 fails to contain the feature "wherein packets are switched on a per call basis at a AAL2 CPS layer wherein the AAL2 SSCS layer is terminated on a per call basis at a transcoder node".

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRIAN ROBERTS whose telephone number is (571)272-3095. The examiner can normally be reached on M-F 10:00-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DANIEL RYMAN can be reached on (571) 272-3152. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BSR 04/12/2010

/Daniel J. Ryman/ Supervisory Patent Examiner, Art Unit 2466